

What is claimed is:

1. An energy meter, comprising:
 - a first enclosure portion;
 - a circuit board assembly for performing metering functions;
 - 5 a partial terminal block; and
 - a second enclosure portion, the first and second portions being mateable with each other to form a meter package, the circuit board assembly and partial terminal block at least partially contained within the meter package.
- 10 2. The energy meter of claim 1, further comprising a wiring cover connected to the second enclosure portion.
3. The energy meter of claim 1, wherein the first enclosure portion comprises a plurality of terminal block features.
4. The energy meter of claim 1, wherein the second enclosure portion comprises a semi-transparent material.
- 15 5. The energy meter of claim 1, wherein the second enclosure portion has a window area.
6. The energy meter of claim 1, wherein the circuit board assembly comprises a plurality of toroidal current sensors.
7. The energy meter of claim 6, wherein the current sensors are disposed substantially in parallel with each other, and at approximately 45-degree angles on the circuit board
20 assembly with respect to an edge of the circuit board assembly.
8. The energy meter of claim 6, further comprising a plurality of current conductors, each current conductor disposed through an associated current sensor.

9. The energy meter of claim 8, wherein each current conductor comprises a flat wire, and the ends of each wire are fastened to the partial terminal block.
10. The energy meter of claim 1, further comprising a contact spring connecting the circuit board assembly and the partial terminal block.
- 5 11. The energy meter of claim 10, wherein the contact spring comprises bifurcated ends.
12. The energy meter of claim 1, wherein the circuit board assembly further comprises a voltage disconnect link.
13. The energy meter of claim 12, wherein the voltage disconnect link comprises a voltage disconnect screw, a voltage disconnect square nut, and the circuit board assembly further
- 10 comprises a voltage disconnect slot and a voltage disconnect link circuit pad on at least one side of the voltage disconnect slot.
14. The energy meter of claim 13, wherein the partial terminal block comprises a pocket for guiding the voltage disconnect link.
15. The energy meter of claim 1, further comprising a data label displaying data, the data
- 15 label attached to the second enclosure portion.
16. The energy meter of claim 1, further comprising a binocular disposed between the second enclosure portion and the circuit board assembly.
17. The energy meter of claim 16, wherein the binocular comprises two directional guides separated by a rib.
- 20 18. The energy meter of claim 1, further comprising an actuator switch.

19. The energy meter of claim 18, wherein the actuator switch comprises an inner actuator and an outer housing, the inner actuator connecting to the outer housing through the second enclosure portion.
20. The energy meter of claim 19, wherein the inner actuator comprises ribs separated by
5 at least one gap, and the outer housing comprises a locking-tab, the locking-tab corresponding to the at least one gap for interlocking.
21. A voltage disconnect link for isolating current and voltage sources in an energy meter having a circuit board assembly, comprising:
- 10 a voltage disconnect screw;
a voltage disconnect square nut into which the voltage disconnect screw is detachably mounted to form a screw assembly;
a voltage disconnect slot disposed on the circuit board assembly, the screw assembly slidably mounted therein; and
a voltage disconnect link circuit pad on at least one side of the voltage
15 disconnect slot.
22. The voltage disconnect link according to claim 21, wherein at one end of the voltage disconnect slot, the voltage disconnect link circuit pad is shorted out with the screw assembly.
23. The voltage disconnect link according to claim 21, wherein at one end of the voltage
20 disconnect slot, the screw assembly is disposed in a pocket within the energy meter.
24. The voltage disconnect link according to claim 23, wherein the pocket prevents rotation of the voltage disconnect square nut.
25. A binocular for use in an energy meter, comprising:
- a first directional guide;

a second directional guide parallel to the first directional guide, the first and second directional guides being hollow; and

a rib disposed between the first and second directional guides, the rib preventing crosstalk between the first and second directional guides.

- 5 26. The binocular according to claim 25, wherein the first and second directional guides and the rib comprise an opaque resilient material.

27. The binocular according to claim 26, wherein the opaque resilient material is a thermoplastic elastomer.

28. An actuator switch comprising:

- 10 an inner actuator comprises ribs separated by at least one gap; and
 an outer housing comprises a locking-tab, the locking-tab corresponding to the at least one gap for interlocking.

29. The actuator switch according to claim 28, wherein the inner actuator is rotatable within the outer housing.

- 15 30. The actuator switch according to claim 28, wherein the inner actuator has an upper surface comprising a flange having two sides.

31. The actuator switch according to claim 30, wherein the both sides of the flange are flexible to give way to the locking-tab.

32. The actuator switch according to claim 28, wherein the locking-tab comprises a
20 chamfer.

33. The actuator switch according to claim 28, wherein the outer housing further comprises a hex area.

34. The actuator switch according to claim 28, where the outer housing further comprises a plurality of cantilevered springs.
35. The actuator switch according to claim 28, wherein the inner actuator further comprises a plurality of substantially flat flanges.
- 5 36. The actuator switch according to claim 35, wherein the flat flanges are about 90 degrees apart.